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THE UNITED STATES PATENT AND TRADEMARK OFFICE

In the Application of:
Stewart D. Lyman and
M. Patricia Beckmann

Attorney Docket No. : 2813-E

Serial No.: 08/243,545

Group Art Unit: 1812

Filed: May 11, 1994

Examiner: L. Spector

For: LIGANDS FOR FLT3 RECEPTORS

Commissioner of Patents
and Trademarks
Washington, DC 20231

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AMENDMENT A

Dear Commissioner:

In response to the Office Action dated April 25, 1995 (the "Action") in connection with the above-captioned application, applicants respectfully request amendment of the application as follows:

In the Specification:

- Page 1, line 11, after, "December 3, 1993", insert -- abandoned --,
- Page 1, line 12, after "August 25, 1993", insert -- abandoned --,
- Page 1, line 13, after "August 12, 1993", insert -- abandoned --,
- Page 9, line 21, delete "flt3-L," and
- Page 33, line 25, after "the flt3-L cDNA", insert -- of clone #6C --.

In the Claims:

an isolated DNA sequence encoding a Flt3 ligand (Flt3-L) polypeptide, said DNA

selected from the group consisting of:

- 1. ~~(Amended)~~ ^{12.} A DNA according to claim 8, selected from the group consisting of:
 - (a) [cDNA derived from] the coding region of a flt3-L gene;
 - (b) cDNA sequences that encode a polypeptide having the amino acid sequence selected from the group consisting of amino acids 28 to Xaa of SEQ ID NO:2 and amino acids 28 to Yaa of SEQ ID NO:6, wherein Xaa is an amino acid from 163 to 231, and Yaa is an amino acid from 160 to 235 [SEQ ID NO:1 and SEQ ID NO:5];
 - (c) DNA sequences that hybridize under moderately stringent conditions to the cDNA of (a) or (b), and which DNA sequences encode a polypeptide that is capable of binding to flt3 and which is at least 80% identical to a polypeptide encoded by the cDNA of (a) or (b) [flt3-L]; and
 - (d) DNA sequences that, due to the degeneracy of the genetic code, encode flt3-L polypeptides having the [amino] amino acid sequence of the polypeptides encoded by the DNA sequences of (a), (b) or (c).